

FIG. 1

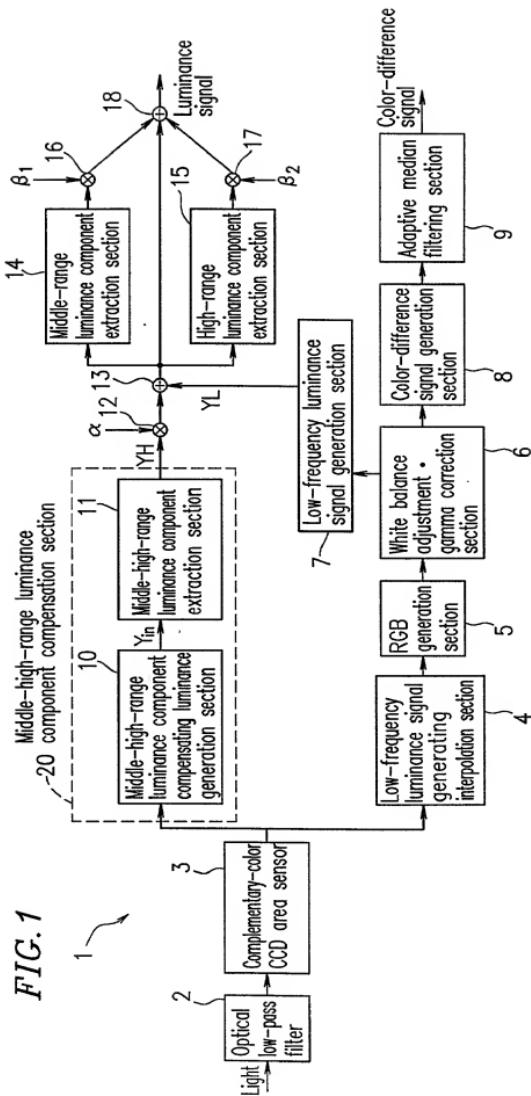


FIG.2

		$\Rightarrow \Delta x \leq$					
		Ye	Cy	Ye	Cy	Ye	Cy
Δy	Gr	Mg	Gr	Mg	Gr	Mg	
	Ye	Cy	Ye	Cy	Ye	Cy	
	Gr	Mg	Gr	Mg	Gr	Mg	
	Ye	Cy	Ye	Cy	Ye	Cy	
	Gr	Mg	Gr	Mg	Gr	Mg	

Color array of
complementary-color filter

FIG.3

Yel	Cy2	Ye3
Gr4	Mg5	Gr6
Ye7	Cy8	Ye9
Gr10	Mg11	Gr12

Part of color array of
complementary-color filter of Fig.2

FIG. 4

$\begin{matrix} x \\ y \end{matrix}$	1/2	1	1/2
1/2	1/4	1/2	1/4
1	1/2	1	1/2
1/2	1/4	1/2	1/4

YeCyGrMg complementary filter

FIG. 5A

$\frac{x}{y}$	1/16	-3/16	10/16	10/16	-3/16	1/16
1/16	1/256	-3/256	10/256	10/256	-3/256	1/256
-3/16	-3/256	9/256	-30/256	-30/256	9/256	-3/256
10/16	10/256	-30/256	100/256	100/256	-30/256	10/256
10/16	10/256	-30/256	100/256	100/256	-30/256	10/256
-3/16	-3/256	9/256	-30/256	-30/256	9/256	-3/256
1/16	1/256	-3/256	10/256	10/256	-3/256	1/256

First YH extraction filter F1

FIG. 5B

$\frac{x}{y}$	1/8	3/8	3/8	1/8
1/8	1/64	3/64	3/64	1/64
3/8	3/64	9/64	9/64	3/64
3/8	3/64	9/64	9/64	3/64
1/8	1/64	3/64	3/64	1/64

Second YH extraction filter F2

FIG. 6

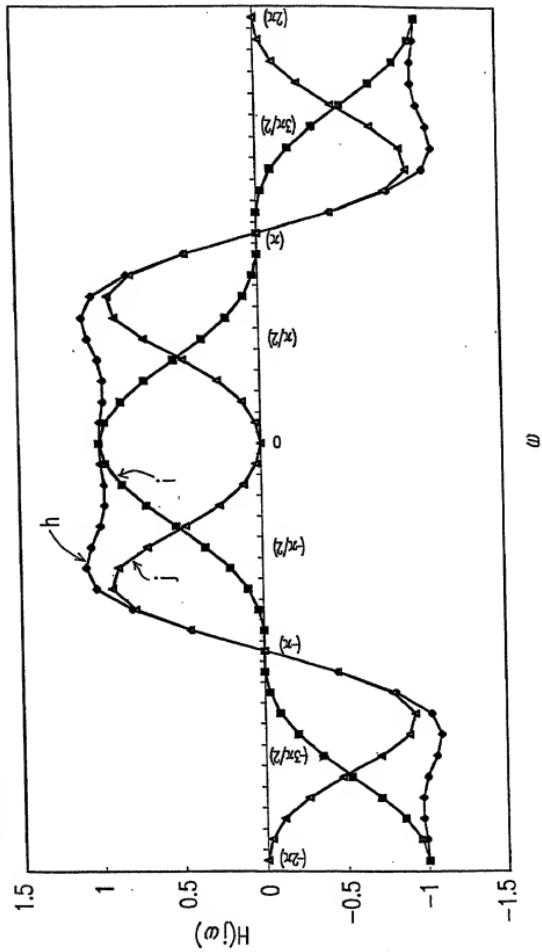
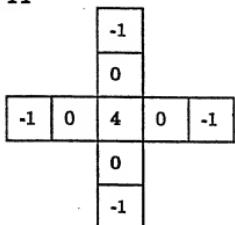
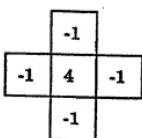


FIG. 7A



Middle-range luminance
component extraction filter

FIG. 7B



High-range luminance
component extraction filter

FIG. 8

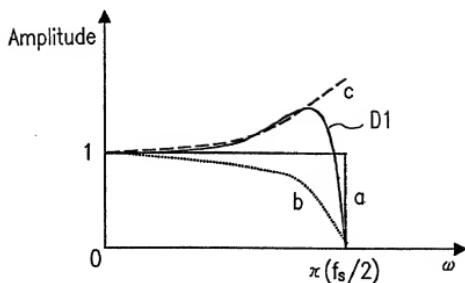
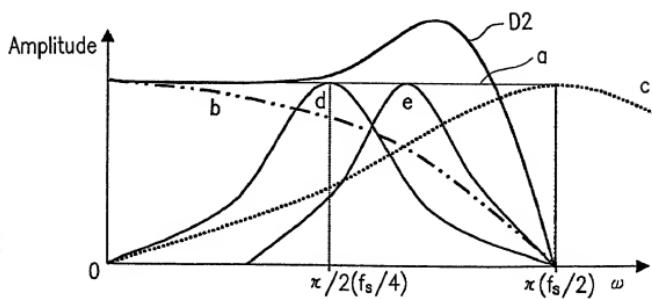


FIG. 9



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FIG. 10

1	-5	4	4	-5	1
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 (A)

-1	2	-1
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 (B)

-1	0	2	0	-1
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 (C)

1	2	1
---	---	---

 (D)

1	1
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 (E)

FIG. 11

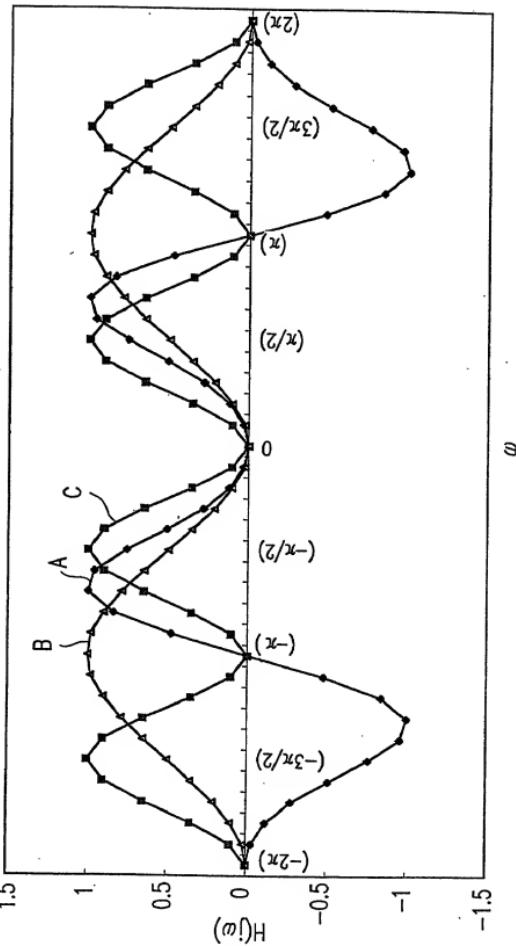


FIG. 12

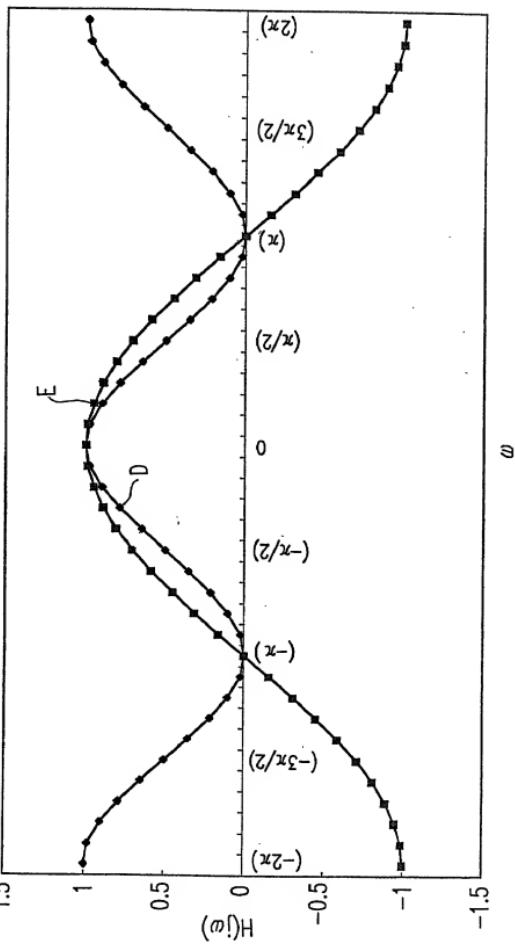


FIG. 13

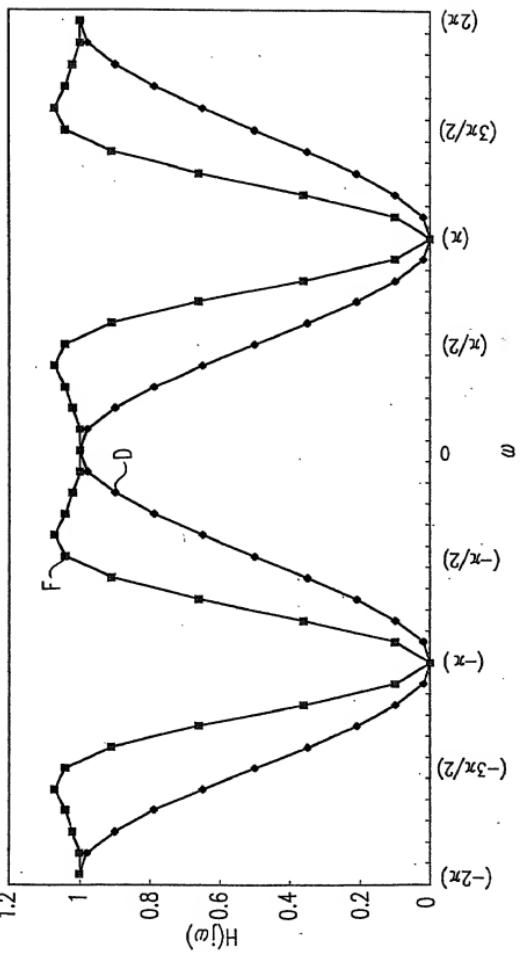


FIG. 14

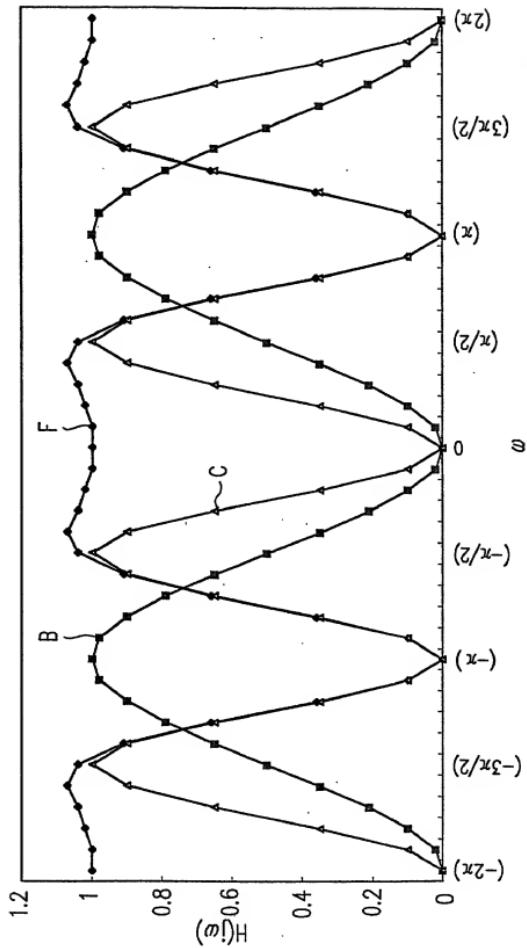
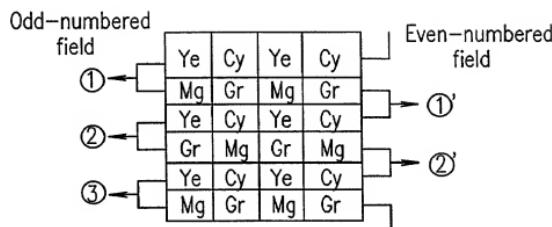


FIG. 15



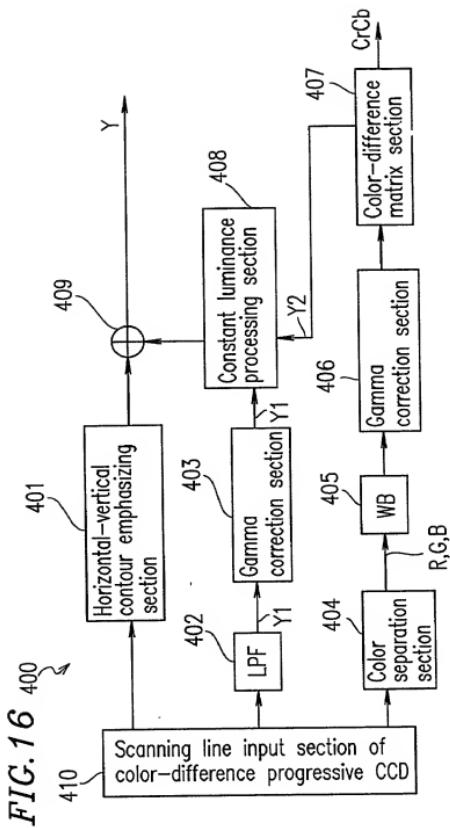


FIG. 17

1/256	-3/256	10/256	10/256	-3/256	1/256
-3/256	5/256	-42/256	-42/256	5/256	-3/256
10/256	-42/256	64/256	64/256	-42/256	10/256
10/256	-42/256	64/256	64/256	-42/256	10/256
-3/256	5/256	-42/256	-42/256	5/256	-3/256
1/256	-3/256	10/256	10/256	-3/256	1/256